Resolution No.: 16-1342

Introduced:

May 18, 2010

Adopted:

May 18, 2010

COUNTY COUNCIL FOR MONTGOMERY COUNTY MARYLAND

By: County Council

SUBJECT: Executive Regulation 26-09AM, Adoption of the 2009 International Building, Energy Conservation, Mechanical, Fuel-Gas, and Residential Codes

Background

- 1. On March 26, 2010 the Council received Executive Regulation 26-09, Adoption of the 2009 International Building, Energy Conservation, Mechanical, Fuel-Gas, and Residential Codes.
- 2. This regulation would adopt the 2009 editions of the International Building, Energy Conservation, Mechanical, Fuel-Gas, and Residential Codes. These editions are the most up-to-date versions of the model codes and will keep the County in conformance with the Maryland Building Performance Standard.
- 3. The Council reviewed the regulation under Method (2) of §2A-15 of the County Code.
- 4. Under Method (2), if the Council does not approve or disapprove a regulation within 60 days after the Council receives the regulation, the regulation automatically takes effect.
- 5. On April 28, the Transportation, Infrastructure, Energy & Environment Committee reviewed Executive Regulation 26-09, Adoption of the 2009 International Building, Energy Conservation, Mechanical, Fuel-Gas, and Residential Codes and recommended (2-1) approval of the regulation with amendments.
- 6. On May 13, the Executive resubmitted the regulation as Executive Regulation 26-09AM, Adoption of the 2009 International Building, Energy Conservation, Mechanical, Fuel-Gas, and Residential Codes.

Action

The County Council for Montgomery County, Maryland approves the following regulation:

Executive Regulation 26-09AM, Adoption of the 2009 International Building, Energy Conservation, Mechanical, Fuel-Gas, and Residential Codes is approved.

This is a correct copy of Council action.

Linda M. Lauer, Clerk of the Council

Attachment to Resolution No.: 16-1342



MONTGOMERY COUNTY EXECUTIVE REGULATION

Offices of the County Executive. 101 Monroe Street. Rockville, Maryland 20850

| Subject: Number: 26-09 AM | |
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| Adoption of the 2009 IBC, IRC, IECC, IMC, IFGC | |
| Originating Department: | Effective Date: |
| Department of Permitting Services | May 18, 2010 |

Montgomery County Regulation on:

ADOPTION OF THE 2009 INTERNATIONAL BUILDING, ENERGY CONSERVATION, MECHANICAL, FUEL-GAS, AND RESIDENTIAL CODES

DEPARTMENT OF PERMITTING SERVICES

Issued by:

The County Executive Regulation No. 26-09

Authority: Code Sections 8-13 and 8-14 Supersedes: Regulations No. 28-07

Council Review: Method 2 under Code Section 2A-15

Register Vol. 26, Issue 12 Comment Deadline: January 15, 2010 Effective Date: May 18, 2010

Sunset Date: None

SUMMARY:

This regulation adopts the 2009 editions of the International Building Code (IBC), the International Energy Conservation Code (IECC), the International Fuel Gas Code (IFGC), the International Mechanical Code (IMC), and the International Residential Code (IRC) with amendments. It governs all buildings and structures

within Montgomery County.

ADDRESS:

Department of Permitting Services 255 Rockville Pike, Second Floor Rockville, Maryland 20850-4166

STAFF CONTACT:

Hadi Mansouri, Chief, Division of Building Construction 240/777-6233

BACKGROUND

INFORMATION:

Inasmuch as the International Code Council (ICC) publishes the international series (I-series) of construction standards every three years, and the State of Maryland adopts these standards and obligates its political subdivisions to adopt the standards within a specific time period. Montgomery County must adopt these

standards within the prescribed period.



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| Adoption of the 2009 IBC, IRC, IECC, IMC, IFGC | * | |
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- Sec. 1. This regulation is adopted pursuant to Sections 8-13 and 8-14 of the Montgomery County Code (MCC), 1994, as amended, and applies to the construction, alteration, addition, repair, removal, demolition, use, location, occupancy, and/or maintenance of all buildings and structures, and their service equipment, within Montgomery County. It supersedes Executive Regulations 28-07, dated May 13, 2008, and all previous regulations adopting the BOCA and the International Code Council (ICC) standards. Its purpose is to adopt the 2009 editions of the IBC, the IECC, the IFGC, the IMC, and the IRC with amendments necessary to achieve uniformity and consistency with Maryland and Montgomery County laws and ordinances, as well as department/division policies and procedures. Where this regulation differs from the Montgomery County Fire Safety Code it does not preempt or negate any more restrictive provisions of that code.
- Sec. 2. Wherever the IBC references the ICC Electrical Code, replace the reference with Chapter 17 of the Montgomery County Code. Wherever the IBC references the ICC/ANSI A117.1, replace the reference with the Maryland Accessibility Code.

AMENDMENTS TO THE 2009 INTERNATIONAL BUILDING CODE (IBC)

- Sec. 3. Section 101.1. Replace the parentheses and the phrase in the parentheses with "Montgomery County, Maryland."
- Sec. 4. Section 101.2. Number the existing exception as #1 and add a second exception (#2) to read as follows: Existing buildings, as defined by the Maryland Building Rehabilitation Code, undergoing repair, alterations or additions and change of occupancy shall be permitted to comply with the Maryland Building Rehabilitation Code.
- Sec. 5. Sections 101.4.3, 101.4.4, and 101.4.5. Delete.
- Sec. 6. Section 101.4.1. Delete and replace as follows: The provisions of the International Fuel Gas Code shall apply to the installation of Liquefied Petroleum gas systems and appliances, fuel gas appliances and related accessories as covered in this code. These requirements apply to the inlet connections of appliances and to the installation and operation of residential and commercial gas appliances and related accessories. The provisions of the International Fuel Gas Code apply to the extent that they are adopted in this regulation.
- Sec. 7. Section 102.6. Replace the phrase "the International Property Maintenance Code or" with the phrase "the Montgomery County Fire Safety Code and".
- Sec. 8. Sections 103, 108, 111, and 113, except 113.2. Delete.



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- Sec. 9. Section 105.1. Add the following: A separate permit is required for each legal address and for each separate building at a legal address. Section 105.2. Delete all except subsections 105.2.1, 105.2.2, and 105.2.3. Sec. 10. Sec. 11. Sections 105.3, 105.4, 105.5, 105.6, and 105.7. Delete. Sec. 12. Section 109.1. Add a second sentence to read: Required fees shall be paid for each separate permit application. Sec. 13. Sections 109.2 through 109.6. Delete. Sec. 14. Section 110.3.10. Add the following: The final inspection must be requested and approved before a building (or portion thereof) including equipments and appliances are used or occupied, whether or not a valid certificate of use and occupancy exists. Sec. 15. Sections 114 and 115. Delete. Sec. 16. Section 305.2. Change 2½ to 2. Sec. 17. Section 308.2. Change the word "five" to "eight," and the word "six" to "nine." Sec. 18. Section 308.3.1. Change 2½ to 2 in the definition of Child Care Facilities. Sec. 19. Section 308.5.2. In code text and exception, change 2 ½ to 2. Sec. 20. Section 310.1. After the description for Group R-3 occupancies, add the following: Exceptions: 1. A family day care home, which is a dwelling in which child day care services are provided: a) in the home where the registrant is the provider and a resident, or where the registrant is not a resident, but more than half of the children cared for are residents; b) for
 - 1. A family day care home, which is a dwelling in which child day care services are provided: a) in the home where the registrant is the provider and a resident, or where the registrant is not a resident, but more than half of the children cared for are residents; b) for not more than eight children, including the children of the provider, who are less than six years of age, and; c) where staffing complies with state and local regulations, but no more than two non-resident staff members are on site at any time, may be classified as Group R-3, or as a one- or two-family dwelling conforming to the IRC; or
 - 2. A group day care home, which is a dwelling in which child day care services are provided: a) in the home where the licensee is the provider and a resident; b) for nine to 12 children, including the children of the provider, and; c) where staffing complies with state and local regulations, but no more than three non-resident staff members are on site at any



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| | | time, may be classified as Group R-3, or as a one- or two-family | y dwelling conforming to |
| | | the IRC. | |
| | • | In the first sentence of Group R-4 change "five" to "eight". | |
| | Sec. 21. | Section 403.2.1.2. Delete. | |
| | Sec. 22. | Section 403.4.4. Delete the phrase "Section 510 of the Internative replace with "the Montgomery County Fire Safety Code". | ional Fire Code" and |
| | Sec. 23. | Section 411.1. Number the existing exception as #1 and add a stread as follows: An amusement which is a multilevel play struct 10 feet in height and has an aggregate horizontal projection not | cture that is not more than |
| | Sec. 24. | Section 419. Delete. | |
| | Sec. 25. | Section 422.3. Change "30" to "15". Change "2.8" to "1.4" an patient" to "occupant". | d change "nonambulatory |
| | Sec. 26. | Chapter 4. Add a new section 424 Residential Occupancies. | |
| | | 424.1 All R occupancies shall have appropriate radon control f Appendix F in the International Residential Code, 2009 edition | |
| | Sec. 27. | Section 501.2. Delete "and existing" in the first line. In the sec phrase "4 inches (102 mm)" to "6 inches (153 mm), except R-3 permitted to be 5 inches (127 mm),". | |
| | Sec. 28. | Section 509.2. Add two more conditions as follows: | |
| | | 8. For purposes of determining the number of stories above grahour horizontal assembly shall be considered a story above grad of the average grade plane. | |
| | | 9. A fire command center complying with Section 911 shall be | e provided. |
| | Sec. 29. | Section 703.6. Amend item 3 to add a sentence as follows: "The identify the fire resistance rating in hours." | ne sign or stenciling shall |
| | Sec. 30. | Section 708.14.1. Add the following sentence at the end of the enclosed elevator lobby is provided, exit access corridors shall elevator lobby. | |



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- Sec. 31. Section 716.5.3. Replace the first sentence of Exception 2 with the following: "In buildings, other than Group H occupancies, equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2, smoke dampers are not required where:"
- Sec. 32. Section 903.1.1. Delete and replace with the following: 903.1.1 Alternative Protection. Where water as an extinguishing agent is not compatible with the fire hazard, or is prohibited by a law, statute, or ordinance, the affected area must be protected by an approved automatic fire-extinguishing system utilizing an extinguishing agent that is compatible with the fire hazard.
- Sec. 33. Section 903.2.1.2. Add a fourth condition to read as follows:
 - 4. The assembly occupancy is one of the following (1) Bars with live entertainment, (2) Dance halls, (3) Discotheques, (4) Nightclubs, or (5) Assembly occupancies with festival seating as defined in the Life Safety Code, 2009 edition.
- Sec. 34. Section 903.2.8. Add an exception to read as follows:

An automatic sprinkler system throughout the building is not required when all of the following conditions are met:

- 1. The building is a mixed use building, that is not otherwise required to be protected throughout by automatic sprinklers;
- 2. There is only one dwelling unit in the building;
- 3. The dwelling unit is separated from the remainder of the building by fire barriers in accordance with Section 707 and horizontal assemblies in accordance with Section 712 having a fire resistance rating not less than 2 hours;
- 4. The means of egress from the dwelling unit is independent from the other occupancies; and,
- 5. The dwelling unit is protected throughout with automatic sprinklers. The automatic sprinkler system installed for this exception shall be permitted to be designed in accordance with Section 903.3.1.3.
- Sec. 35. Section 903.3.1.3. Add the following sentences at the end of the section: Automatic sprinkler systems in day care homes with 12 clients or less located in converted one and two family dwellings or townhouses shall be permitted to be installed in accordance with NFPA 13D. Unless specifically permitted by this Code, automatic sprinkler systems in occupancies, other than one and two family dwellings or townhouses, shall be installed in accordance with Section 903.3.1.1 or 903.3.1.2.
- Sec. 36. Section 905.3. After the section title add the following two sentences:

 In new installations where the code requires either Class II or III standpipes, Class I standpipes shall be installed. Occupant use hose is prohibited in new or existing buildings.



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- Sec. 37. Section 909.9. Add the following sentence at the end of the section: In all cases, the design fire size shall not be less than 5000 Btu/s (5275 kW) unless approved by the building official and the fire official.
- Sec. 38. Section 909.16. In the third sentence, replace the words "approved location adjacent to the fire alarm control panel" with "location approved by the building official and the fire official".
- Sec. 39. Section 911.1.1. Replace with the following, "The fire command center shall have a door directly to the exterior of the building on the address side. The exterior door to the fire command center shall be within 50 feet of a fire department access road. A fire department access box shall be provided within 6 feet of the exterior door to the fire command center. The exterior door to the fire command center shall be identified on the exterior face as the fire command center in a manner acceptable to the fire official."
- Sec. 40. Section 911.1.5.

Amend item 2 to read "The fire department communications system which may include a in-building public safety radio enhancement system monitoring panel."

Amend item 11 to read "Fire pump status indicators and remote starting."

Add an item 18 which reads, "A shunt trip device to disconnect the electrical service to the building."

- Sec. 41. Section 915.1. Replace with the following: Emergency responder radio coverage shall be assured in all newly constructed below ground floors of a building, all floors in buildings greater than 25000 ft² per floor, and to all floors of buildings greater than 3 stories in height.
- Sec. 42. Add Sections 915.2 and 915.3 as follows:

Section 915.2. Every floor area in a building or structure which can not achieve the required level of emergency responder radio coverage as established by Montgomery County Department of Technology Services shall be provided with an in-building public safety radio enhancement system in accordance with the Montgomery County Fire Safety Code.

Section 915.3. Inspection and Testing. Emergency responder radio coverage and inbuilding public safety radio enhancement system must be tested, and inspected by approved individuals. The results of the testing and inspection shall be certified to the code official prior to issuance of an occupancy permit.



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| | : | |
| Sec. 43. | Table 1004.1.1. Add an entry for "Shell Office Spaces" with a | n occupant load factor of 65 |
| | gross square feet per person. | |
| | G .: 1000 G T | |
| Sec. 44. | Section 1003.5. In exception #2, replace the phrase "a single ritread" to "three risers or less". | iser or with two risers and a |
| | tread to three fisers of less. | |
| Sec. 45. | Section 1007.3. Delete Exceptions 1, 2, and 3. | |
| | | · |
| Sec. 46. | Section 1007.4. Delete Exception 2. | |
| Sec. 47. | Section 1008.1.2. Add a sentence at the end to read: "Doors in | n exit enclosures shall swing |
| | in the direction of egress travel unless the door opening serves | |
| | opens directly into an exit enclosure." | <u> </u> |
| | | |
| Sec. 48. | Section 1008.1.9.10. In Exception #3, delete all text after the parameters and a section 1008.1.9.10. | ohrase "openable from the |
| | egress side". | · |
| Sec. 49. | Section 1009.13. At end of the section add the phrase "or ladd | er complying with Section |
| | 7.2.9 of the Life Safety Code, 2009 edition", | |
| | | |
| Sec. 50. | Section 1012.6. At the end of the last sentence add the phrase | |
| | AHJ, an extension in the same direction of the stair or ramp creof egress." | eates a nazard in the means |
| | of egress. | |
| Sec. 51. | Section 1012.7. Change "1 1/2" to "2 1/4". | |
| ` | | • |
| Sec. 52. | Section 1013.1. After the phrase "equipment platforms," add t | the phrase "retaining walls,". |
| Sec. 53. | Section 1013.2. In exception #1 and #2, change "34 inches (8) | 64 mm)" to "36 inches (915 |
| | mm)". Add a fifth exception: Exception 5. In occupancies in | |
| | individual dwelling units in occupancies in Group R-2, interior | r guards shall be permitted to |
| | be not less than 36 inches high. | • |
| Sec. 54. | Section 1013.3. Delete Exception #6. | • |
| 560. 54. | Section 1013.3. Delete Exception #0. | |
| Sec. 55. | Section 1015.2.1. Add the following exception: Exception 3. | In buildings of Group R-2 |
| | four stories or less in height above the grade plane that are ser | 4 |
| | stairways connected by an open-ended corridors in compliance | |
| | Exception 4 shall be provided with remoteness between the ne | |
| | landings that are separated by a distance of at least one fourth | the length of the maximum |
| | overall diagonal dimension of the area served. | • |
| Sec. 56. | Section 1018.1. Replace Exception 4 with the following: A fi | re resistance rating is not |



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required for corridors within single-tenant Group B occupancies.

Sec. 57. Section 1020. Add a new section 1020.3 to read as follows:

Section 1020.3. Fire Department Access to Floors. Not less than one exit stair which serves all stories of the building shall be accessible by an internal corridor from the main entrance of the building or the fire department response location.

Sec. 58. Section 1027.1, Exception 1, Item 1.1. Add two sentences at the end of the item that read as follows:

The door to the exterior of the building shall be in direct sight of the point of the termination of the exit. For the purposes of this section, the use of exit signs or other exit markings shall not be considered as making the way to the exterior "readily visible and identifiable".

- Sec. 59. Chapter 11. Delete and replace with the Maryland Accessibility Code.
- Sec. 60. Section 1405.13.2. Number the existing exception as #1 and add two exceptions (#2 and #3) to read as follows:

Exception #2: In buildings four stories or less, the lowest part of the clear opening of the window shall be permitted to be at a height not less than 18 inches (457mm) above the finished floor surface of the room in which the window is located.

Exception #3: In buildings four stories or less, glazing between the floor and a height of 18 inches (457mm) shall be fixed or have openings through which a 4-inch (102mm) sphere cannot pass.

- Sec. 61. Table 1607.1 Item 29_Roofs. Modify the uniform live load value for "Ordinary flat, pitched and curved roofs" to 30 pounds per square foot, nonreducible.
- Sec. 62. Add a new section as follows:

Section 1607.14. Fire Truck Loading. Structural members subject to fire truck loading shall be designed for the concentrated loads applied by the vehicle to the structure as described below:

The maximum fire truck operating weight is 85,000 pounds distributed in three axles spaced 19 feet 6 inches and 4 feet 6 inches apart. The transverse wheel distance is 8 feet 2 inches. The front axle weighs 23,000 pounds and rear axles weigh 31,000 pounds each. When the ladder is up, the vehicle is raised and supported on four (4) outriggers spaced 10 feet apart along the length of the vehicle and 16 feet apart in the transverse direction. Depending upon the position of the ladder, any pair of two front, side or rear outriggers apply to the structure a force of 123,552 pounds (61,776 pounds per outrigger in



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| | accordance with NFPA 1901, Chapter 20.21.4.2) and force of zero (0) pounds. Outrigger pad dimensions inches long. | |
| Sec. 63. | Section 1608.2. After the title add the following sentence: "Design ground snow loads for Montgomery County shall be not less than 30 pounds per square foot." | |
| Sec. 64. | Section 1612.3. After the heading, delete the text and replace with the following: The flood hazard map of Montgomery County is established in Section 3 of Executive Regulation 24-06 AM, Floodplain Regulations, per the authority in Article III, Chapter 19 of the Montgomery County Code. | |
| Sec. 65. | Section 1704.4. Delete Exception 1. | |
| Sec. 66. | Section 1704.4. Delete Exception 2.3. Amend exception 2.1 by adding the word "or" after the semicolon. Amend exception 2.2 by deleting the word "or". | |
| Sec. 67. | Table 1704.4 Items 10 and 11. Modify the inspection "continuous". | on frequency from "periodic" to |
| Sec. 68. | Table 1704.4 Item 11. Add the sentence to the first be demonstrated by field cured cylinders only." | column, "The strength evaluation shall |
| Sec. 69. | Add a new section as follows: Section 1801.3 Special conditions. Design and construction of all buildings and structures within 1000 feet of a known municipal solid waste (MSW) landfill site that does not currently have an operational land fill gas (LFG) monitoring and removal system, shall require special engineering of foundation systems, including walls and floor slabs, to provide for the safety of occupants against hazards from LFG concentration. Special subsurface investigations shall be conducted, at the owner's expense, by an approved and qualified engineer or geologist to determine the extent of the potential hazard. The study must identify the potential hazards, and mitigation plans for the site must be incorporated into the construction documents and approved prior to issuance of a building permit. All buildings and structures within 1000 feet of the boundary of a MSW landfill shall be equipped with a methane gas detector with an alarm activation level of 20% of the lower explosive limit (LEL 1% by volume). | |
| Sec. 70. | Section 1809.5. In item number 1, after the word "minimum of 24 inches below the adjacent finish gra | |
| Sec. 71. | Add a new section as follows: | |
| | 1901.2.1. For precast structures, in the case of a co | |



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| Sec. 72. | Chapter 29. Delete. | |
| 360. 72. | Chapter 29. Delete. | |
| Sec. 73. | Sections 3001.2, 3001.3, and 3001.4. Delete and replace Standards. The Maryland Department of Labor, Licensi Labor and Industry, regulates the design, installation, in and conveying equipment. | ng, and Regulation, Division of |
| Sec. 74. | Section 3107.1. Add the following at the end of the sen Montgomery County Code, 1994, as amended." | itence: "and Chapter 59 of the |
| Sec. 75. | Section 3109.3. Change "4 feet (1290 mm)" to "5 feet | (1524 mm)". |
| Sec. 76. | Section 3109.4.1. Change "48 inches (1219 mm)" to "6 | 60 inches (1524 mm)". |
| Sec. 77. | Section 3302. Add a new section 3302.3 which reads "comply with NFPA 241, Standard for Safeguarding Condemolition Operations, 2004 edition." | |
| Sec. 78. | Section 3401.1. Add the following at the end of the ser defined by the Maryland Building Rehabilitation Code, additions and change of occupancy shall be permitted to Building Rehabilitation Code. Buildings undergoing rechange of occupancy shall also comply with the Montg | undergoing repair, alterations or comply with the Maryland pair, alterations, additions and |
| Sec. 79. | Appendix F. Appendix F is hereby adopted in its entire | ty. |
| Sec. 80. | Appendix G. Appendix G is hereby adopted in its entire | ety and amended as follows: |
| | Section G102.1. Insert after International Building Cod Article III, Chapter 19 of the Montgomery County Cod AM." | |
| | Section G102.2. Replace the parentheses and the phrase effective date of this regulation. | e within the parentheses with the |
| Sec. 81. | Appendix H. Appendix H is hereby adopted in its entire | rety and amended as follows: |
| | Section H 101.1. Insert at the beginning of this section shall apply to signs that are permitted by the Montgome | "The provisions of this chapter ery County Zoning Ordinance". |
| | Section H 101.2, Delete. | |
| | Section H102.1, Delete definitions for "Combination si | ign", "Display Sign", "Pole Sign", |



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"Portable Display Surface", and "Projecting Sign."

Add definition of "Supported Sign" as follows: 'A sign that is attached to a structure like a pole, column, frame, or brace, as its sole means of support, and is not a ground sign and is not attached to a building.

Delete and replace the definition of "sign" as follows: "Any device, fixture, placard, or structure that uses any color, form, graphics, illumination, symbol, or writing to attract attention or to communicate information".

Delete and replace the definition of "ground sign" as follows: "A sign erected on the ground or with its bottom edge within 12 inches of the ground, that has its support structure as an integral part of the sign, and where the dimensions closest to the ground is greater than height.

Delete and replace the definition of "wall sign" as follows: "Any sign that is attached to the wall of a building. There are two types of wall signs: Flat wall sign: A sign that is parallel to the wall of a building to which it is attached, but does not extend more than 12 inches from the building face; Projecting wall sign: A sign that is attached to a wall of a building and extends more than 12 inches from the building face.

Section H104, Delete.

Section H108, Delete.

Section H109. Add the words "and supported" between "ground" and "sign" in the title and in the first two sentences of H109.1

Section H109.2, Delete.

Section H110, Delete the text of H110.1 (including the exception) and replace with the following "Roof signs are prohibited." Delete Sections H110.2 through H110.5.

Section H111.3. Add the word "wall" between "projecting" and "sign".

Section H112. Add the word "wall" between "projecting" and "sign" in the title and first sentence.

Section H112.4. In the first sentence, delete all text starting with the word "except".

Section H113. Delete.



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AMENDMENTS TO THE 2009INTERNATIONAL ENERGY CONSERVATION CODE (IECC)

- Sec. 82. Section 101.1. Replace the parentheses and the phrase in the parentheses with "Montgomery County, Maryland."
- Sec. 83. Section 101.2. Add exception to read as follows: Energy conservation systems and components in existing buildings, as defined by the Maryland Building Rehabilitation Code, undergoing repair, alteration or additions, and change of occupancy, shall be permitted to comply with the Maryland Building Rehabilitation Code.
- Sec. 83.1. Add Section 404.4.2.3. Notwithstanding the provisions of section 402.4.2 ten (10%) of all new one- and two-family dwellings constructed between July 1, 2010 and June 30, 2011 must be tested in accordance with section 402.4.2.1 and all test results must be reported to the Department.

AMENDMENTS TO THE 2009 INTERNATIONAL MECHANICAL CODE (IMC)

- Sec. 84. Section 101.1. Replace the parentheses and the phrase in the parentheses with "Montgomery County, Maryland."
- Sec. 85. Section 101.2. Add exception to read as follows: Mechanical systems in existing buildings, as defined by the Maryland Building Rehabilitation Code, undergoing repair, alterations, or additions, and change of occupancy shall be permitted to comply with the International Existing Building Code.
- Sec. 86. Sections 106.4.3, 106.4.4, 106.5, and 109. Delete.
- Sec. 87. Add new section 302.6 Supports and Anchorage. All appliances located on roofs shall rest on a manufacturer's standard perimeter support, self flashing roof curb, framed steel support, or 4 X 4 treated lumber as a minimum. The appliances shall be securely affixed in an approved manor to resist vibration and wind loads.
- Sec. 88. Add new section 306.1.1.1 Heating Appliances. Electric, fossil or solid fuel fired appliances shall not be installed under any stairway or landing.
- Sec. 89. Section 306.3. After the last sentence add the following: Access to the attic opening shall be provided by a permanent or pull-down stairway in all new construction. In existing installations, portable ladders shall be acceptable.
- Sec. 90. Table 403.3 under heading "Specialty Shops"
 Add Automotive service or repair garages- note b.



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| Sec. 91. | Section 506.1 Add the words "and NFPA 96." To the sentence "Where discrepancies occur the most astripute sentence. | |
| Sec. 92. | Section 506.3.2.5 Change "100" to "300". | |
| Sec. 93. | Section 506.3.9 Add the words "vertical and" in the first sentence change 20 feet to "12 feet" and after to cleanouts shall be provided on each floor". (NFPAS) | the first sentence add "Vertical |
| Sec. 94. | Section 506.3.12.2 After the last sentence add "Foll additional termination requirements." | ow NFPA 96 section 7.8.3 for |
| Sec. 95. | Section 606.2.1 Under the heading exception, add to of the first sentence. After the last sentence add "Su required for fan units whose sole purpose is to remothe outside of the building. (NFPA90A) | apply smoke detectors shall not be |
| Sec. 96. | Section 606.2.1 Add the words "Supply and" to twords "supply and" after the word "in" in the first or plenum downstream of the air filters and ahead om 3/s) in the first sentence. | sentence and add "in the supply air duct |
| Sec. 97. | Section 607.5.5 exception 2 Replace the first senter "In buildings, other than Group H occupancies, equ sprinkler system in accordance with Section 903.3. required where:" | ripped throughout with an automatic |
| Sec. 98. | Add new section 608 Emergency and Standby Pow | er Systems |
| Sec. 99. | Add new section [F] 608.1 Installation. Emergency the International Fire Code or the International Bui accordance with NFPA 110, NFPA 111 and the In installations shall be maintained in accordance with | lding Code shall be installed in ternational Fire Code. Existing |
| Sec. 100. | Add new section [F] 608.1.1 Stationary Generators power generators required by the International Bui Code shall be listed in accordance with UL 2200. | |
| Sec. 101. | Add new section [F] 608.2 Standby Power. Where inside a building, the system shall be located in a s barrier constructed in accordance with section 707 accordance with section 712 of the International B | eparate room enclosed with a 2-hour fire or horizontal assemblies constructed in |



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| | supervision with manual start and transfe center. | r features shall be prov | vided at the fire command | |
| Sec. 102. | Add new section 608.2.1 Ventilation Air. source outside the building by an exterior building by a 2-hour fire rated air transfer | wall opening or from | | |
| Sec. 103. | Add new section 608.2.2 Discharge air. I by an exterior wall opening or to an exter (NFPA 110) | | | |
| Sec. 104. | Add new section 608.2.3 Fire Dampers. shall not be permitted in ventilation or di power systems. (NFPA 110) | Fire dampers, shutters scharge air openings o | or other self closing devices r ductwork for standby | |
| Sec. 105. | Add new section 608.2.4 Motor Operated shall be spring operated to open and motor | | | |
| | AMENDMENTS TO THE 2009 INTERNA | TIONAL FUEL GAS | CODE (IFGC) | |
| Sec. 106. | Section 101.1. Replace the parentheses a "Montgomery County, Maryland." | nd the phrase in the pa | rentheses with | |
| Sec. 107. | Section 102.2.1. Delete and replace to resofthis code, fuel-gas piping systems, fue accessories in existing buildings, as definundergoing repair, alterations, or addition comply with the Maryland Building Rehr | l-gas utilization equip ed by the Maryland B is, and change of occu | ment and related uilding Rehabilitation Code, | |
| Sec. 108. | Sections 106.5.3, 106.5.4, 106.6, and 109 | 2 to 109.7 Delete. | | |
| Sec. 109. | Chapter 4. Delete all except Sections 401 | 2, 402.6.1, 412, 413, | and 414. | |
| | AMENDMENTS TO THE 2009 INTERNAT | IONAL RESIDENTI | AL CODE (IRC) | |
| Sec. 110. | Section R101.1. Replace the parenthese "Montgomery County, Maryland." | s and the phrase in the | parentheses with | |
| Sec. 111. | Section R101.2. Add Exception to read a Maryland Building Rehabilitation Code, change of occupancy shall be permitted to Rehabilitation Code. | undergoing repair, alt | erations or additions and | |



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- Sec. 112. Section 102.7. Delete the phrase "the International Property Maintenance Code."
- Sec. 113. Section R105.2, Items 1 & 2. Delete. Item 3. Change 4 to 4 ½ and 1219 to 1372. Item 10, delete. Sections R105.3.1.1, R105.3.2, and R105.5. Delete.
- Sec. 114. Section 107. Delete.
- Sec. 115. Section R108.1. Replace the second sentence with the following: Required fees shall be paid for each separate permit application. Sections 108.2 through 108.5. Delete.
- Sec. 116. Sections R109.1 through R109.1.6. Delete all except R109.1.2, R109.1.5, and R109.1.5.1 and replace with the following: R109.1 Types of inspections. The following inspections must be conducted for all buildings and structures:
 - 1. Sign: The sign must be posted on the property within 3 days after the permit issuance date and must remain posted on the property for 30 days. The sign must be located on the side of the lot/parcel, which provides principal access to the street or right-of-the-way. It must be conspicuously posted not more than 5 feet from the front property line and mounted at least 30 inches, but not more than 60 inches, above the ground. NO BUILDING INSPECTION WILL BE PERFORMED PRIOR TO THE APPROVAL OF THIS INSPECTION.
 - 2. Footings: Conducted prior to concrete placement and after excavations for all footings and thickened slabs are completed; after form work, reinforcing steel, concrete-encased electrode (for new dwellings), and grade stakes are in place; and after sediment control measures are installed according to the approved sediment control plan.
 - 3. Foundation/parging or back-fill: Conducted after the exterior walls have been waterproofed and the exterior drain tiles have been installed
 - 4. Concrete slab-on-ground floor: Conducted after the installation of the gravel base, vapor barrier, slab edge insulation, and required radon-control features prescribed in Appendix F. When a sump crock is used for radon venting, it must be in place at the time of this inspection.
 - 5. Wall check (house location survey): The owner must have a house location survey prepared and certified by a Maryland Registered Land Surveyor and must submit a copy to the building official for approval prior to erecting the framing. A wall check not identified by a premise address and permit number will not be accepted. A FRAMING INSPECTION WILL NOT BE CONDUCTED WITHOUT AN APPROVED WALL CHECK.
 - 6. Masonry fireplace/flue: Conducted after the fireplace and first flue liner section are completed.



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- 7. Factory-built fireplace/flue: Conducted at the framing inspection after installation of the unit.
- 8. Framing ("close-in"): Conducted after the completion of all framing, rough electrical/mechanical construction, sprinkler, plumbing and gas piping and just prior to concealment with insulation or interior finishing materials. The plumbing/gas inspection approval must have been granted by the Washington Suburban Sanitary Commission (WSSC) prior to the request for a framing inspection. Also, the sprinkler close-in inspection approval must have been granted by the Department of Fire & Rescue Services (DFRS) prior to the request for a framing inspection. The rough wiring and mechanical inspections must be requested at the same time. WHEN THE FLOOR FRAMING IS LESS THAN 36 INCHES (914 MM) ABOVE THE SURFACE BELOW, A FRAMING INSPECTION SHALL BE REQUESTED PRIOR TO INSTALLATION OF ANY FLOOR DECKING.
- 9. Insulation Inspection: Conducted after the completion of both floor and wall framing to verify that the installed insulation R-value matches the approved plans or specifications for the building.
- 10. Well and Septic Systems: Where a building is served by an on-site water system or an on-site sewage disposal system, prior to the final inspection, an "Interim Certificate of Portability" or "Certificate of Portability" and/or a "Certificate of Sewage Disposal", as appropriate, must be issued by the Department. Where a building is served by an on-site water system or an on-site sewage disposal system, any condition of the permits issued for those systems shall be satisfied prior to the final inspection.
- 11. Final and U/O: Conducted after the building is completed and ready for occupancy, but prior to settlement on the house, unless the contract owner waives the requirement for final inspection and provides the building official with a written copy of the waiver. For new construction, final electrical, mechanical, and sprinkler inspections must be requested with the final building inspection, and the address numbers must be displayed in accordance with the requirements of the fire code. Note: A final approval from WSSC shall be obtained for all plumbing/gas installations prior to requesting final building inspections from the County. Also, The Sprinkler final inspection approval must have been granted by the Department of Fire & Rescue Services (DFRS) prior to the request for a final inspection. If an owner refuses access within a reasonable time after a house is completed, the building official may close the permit file, but this action will not relieve the owner from any obligation to comply with applicable codes. The final inspection must be requested and approved before a building (or portion thereof) is used or occupied.
- 12. Re-inspection: Any of the above inspections disapproved twice for the same violation



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will be subject to a re-inspection fee, as established in the Schedule of Permit and License Fees, which must be paid before any further inspections will be performed at the building site.

- Sec. 117. Sections R110. Delete.
- Sec. 118. Sections R112. Delete except R112.2.
- Sec. 119. Section R202. To the definition dwelling unit add: A dwelling unit may contain a family day care home, group day care home, a home occupancy or home health care practitioner complying with Chapter 59, Montgomery County Code. Note: A certificate of use and occupancy is required before any space dedicated for home occupancy or home health care practitioner can be used or occupied. See Chapters 8 and 59, Montgomery County Code.

Delete in the first paragraph of definition of Attic, Habitable, "or unfinished" and "not"

Add definition for Storage, finished: A finished area having no more than two (2) 120V outlets and no other wiring methods (CATV, satellite, data communication, etc.), excluding lighting requirements.

- Sec. 120. Table R301.2(1). Under the headings indicated insert the appropriate criteria, as follows: GROUND SNOW LOAD--30 pounds per square foot (psf); WIND-Speed--90 miles per hour (mph); TOPOGRAPHIC EFFECTS--No; SEISMIC DESIGN CATEGORY—B; SUBJECT TO DAMAGE FROM-Weathering—severe, Frost line depth—24 inches (612 mm), Termite—moderate to heavy, and Decay—slight to moderate; WINTER DESIGN TEMP—13 degrees Fahrenheit (F); ICE SHIELD UNDERLAYMENT REQUIRED—yes; footnote h; FLOOD HAZARDS—yes; footnote g: (a), (b) July 2, 1979; AIR FREEZING INDEX—300; MEAN ANNUAL TEMPERATURE—55.
- Sec. 121. Section R305.1, Exception 1. Delete the first occurrence of the word "required." Delete the phrase "with no portion of the required floor area less than 5 feet" and replace it with the phrase "Any floor area having less than 5 feet of ceiling height shall not be considered part of the room area and shall not be allowed to have any permanent fixtures or furnishings such as, but not limited to, cabinets, counters, and shelves." Sections R305.1.1 Delete.
- Sec. 122. Sections R307.1. Delete "and in accordance with the requirements of Section P2701.5"
- Sec. 123. Section R312.1. After the first occurrence of the phrase "floor or grade below" insert the phrase "and retaining walls with a difference in grade level on either side of the wall exceeding 30 inches (762 mm) and within 2 feet (610 mm) of a walk, path, parking lot, or driveway on the high side."
- Sec. 124. Section R313.1.1. Replace Section P2904 with NFPA 13D.



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| | Sec. 125. | Section R313.2. Delete "effective January | y 1, 2011". | |
| | Sec. 126. | Section R313.2.1. Delete "Section P2904 | or". | |
| - | Sec. 127. | | stion work in one- and two- family dwellings and sprinkler system. An approved automatic fire sprinkler lergoing rehabilitation work. | |
| | | Add new subsection R313.4. Automatic automatic fire sprinkler system shall be in defined in section 1002.1 of the IBC of the | astalled when 50 perce | ent or more of the gross floor area as |
| | Sec. 128. | Section R319.1 Change "4 inches (102 m | m)" to "5 inches (122 | 5 mm). |
| | Sec. 129. | Section 321.1 Add a new sentence. Walls less than 5/8-inch (15.9 mm) Type X gyp | | or shafts shall be covered with by no |
| | Sec. 130. | Section 321.3. Delete. | | |
| | Sec. 131. | Section R322.1. To the first paragraph a Requirements, Article III, Chapter 19, of Regulation 24-06 AM." | | |
| | Sec. 132. | Add a new section as follows: Section Reconstruction of all buildings and structur waste (MSW) landfill site that does not commonitoring and removal system, shall recincluding walls and floor slabs, to provid LFG concentration. Special subsurface in expense, by an approved and qualified expotential hazard. The study must identify site must be incorporated into the construction of a building permit. All buildings and st MSW landfill shall be equipped with a most 20% of the lower explosive limit (LEI) | es within 1000 feet of currently have an opera- quire special engineering e for the safety of occurvestigations shall be of regineer or geologist to the potential hazards, action documents and ructures within 1000 freethane gas detector with | a known municipal solid ational land fill gas (LFG) and of foundation systems, upants against hazards from conducted, at the owner's determine the extent of the and mitigation plans for the approved prior to issuance feet of the boundary of a |
| | Sec. 133. | Section R403.1.4.1. Change the first exc structures, excluding garages and carpor similar uses and not exceeding 400 square feet (3048 mm) or less shall not be requi- exceptions. | ts, used as tool and sto re feet or less in floor: | rage sheds, playhouses and area and an eave height of 10 |



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| Sec. 134. | Section R405.1. Add to the title "exterior new subsection R 405.1.1. Concrete or m Weep holes at least 2 inches (51 mm) in d mm) on center shall be installed in the foothole inlets shall have a minimum of 6 inches the foundation, extending at least 12 inches layer of approved filter membrane. | asonry foundation intelliameter, spaced at a moting connecting into the (153 mm) of grave | erior drainage system. naximum of 6 feet (1828 the interior drains. Weep- el for the full perimeter of |
| Sec. 135. | Section R406.1. Delete. | | |
| Sec. 136. | Section R406.2. Delete the first sentence foundation walls retaining earth and enclowaterproofed with an approved waterproof top of the footings to finished grades. De system shall be installed as required in the Service report for the product." | sing usable spaces be fing system or a mem lete items 1, 2, 3, and | low grade must be brane extending from the 4. Add. "Waterproofing |
| Sec. 137. | Section R406.4. Delete. | | |
| Sec. 138. | Section R506.2.3. Delete Exceptions 2 as | nd 4. | |
| Sec. 139. | Section R612.2. Window sills. Replace 2 | 24 inches (610 mm) w | ith 18" (457 mm). |
| Sec. 140. | Section N1101.2. Add 2009 IECC after I rest of the section. | nternational Energy C | onservation Code and delete the |
| Sec. 141. | Section N1101.3 through Section N1104. | Delete. | |
| Sec. 142. | Section M.1305.1.3. Add the following a shall be provided by a permanent or pull-installations, portable ladders shall be accommodated by the shall be accommodat | down stairway in all n | |
| Sec. 143. | Section M1405.1. Replace the phrase "Cl Code (NEC) 2008 adopted in Executive I | , - | 'with National Electric |
| Sec. 144. | Section M1406.2. Replace the phrase "Cl Code (NEC) 2008 adopted in Executive I | | ' with National Electric |
| Sec. 145. | Section M1407.1 Replace the phrase "Ch | apters 34 through 43" | with National Electric |

Code (NEC) 2008 adopted in Executive Regulation ER 15-09.



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Sec. 146. Chapters 25 through 43. Delete

Sec. 147. Add new Chapter 45. Site Work and Safeguards.

Section R4501. Storage and placement. Construction equipment and materials shall be stored and placed so as not to endanger the public, the workers or adjoining property for the duration of the construction project.

1. Disposal of Construction Debris/Material. Construction debris and/or materials shall be stored and disposed in a suitable manner so as not to endanger the public and not spread onto the lot and adjoining properties.

Section R4502. Utility connections. Service utility connections shall be discontinued and capped in accordance with the approved rules and the requirements of the authority having jurisdiction.

Section R4503. Excavation and fill for buildings and structures shall be constructed or protected so as not to endanger life or property.

Section R4504. Fill supporting foundations. A building permit is required when fill is used to support the foundations of any building or structure. Special inspections of compacted fill shall be in accordance with Section 1704.7 of the International Building Code 2009.

Section R4505. Protection of Pedestrians

Section R4505.1. Protection required. Pedestrians shall be protected during construction, remodeling and demolition activities by a barrier when the distance from the construction to the lot line is 5 (1524 mm) feet or less.

Section R4505.2. Adjacent to excavations. Every excavation on a site located 5 feet (1524 mm) or less from the street lot line shall be enclosed with a barrier. Where located more than 5 feet (1524 mm) from the street lot line, a barrier shall be erected when and where required by the building official.

Section R4505.3. Barriers. Barriers shall be at least 42" high, have adequate strength, and shall be of a type which will warn of potential danger.

Section R4506. Protection of Adjoining Property. Adjoining public and private property shall be protected from damage during construction, remodeling and demolition work. Protection shall be provided for footings, foundations, party walls, chimneys, skylights and roofs.

Sec. 148. Appendix C. Appendix C is hereby adopted in its entirety.



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- Sec. 149. Appendix E. Appendix E is hereby adopted with the following modification: Delete all except subsections AE501 through AE606, with the following modification to Section AE502.3: In the last sentence, first paragraph, change 12 inches (305) to 24 inches (610).
- Sec. 150. Appendix F. Appendix F is hereby adopted in its entirety.
- Sec. 151. Appendix G. Appendix G is hereby adopted in its entirety, with the following modifications

Section AG101.1, add the following sentence at the end: Swimming pools, Spas and Hot Tubs shall also comply with Chapter 51 of the Montgomery County Code.

Section AG105.2: Item 1. Change 48 to 60 and 1219 to 1524; Item 9.3. Delete.

Sec. 152. Appendix K. Appendix K is hereby adopted in its entirety.

Isiah Leggett, County Executive

Approved as to form and legally many County, Md. County Alborney's Callet